



## **SSI TROLLEY**

# SSI Trolley

## Modular SSI Schaefer Conveyor System

With the integration of MEIKO (Geroldswil, Switzerland) and HSP (Münster, Germany) into the SSI Schaefer group the company is now able to offer overhead conveying systems for hanging goods. Both companies have together over 300 hanging goods installations on the market. The trolley technology of MEIKO and HSP's software and control systems add significant value to SSI Schaefer's product portfolio.

▼ Manual trolley unloading



# Trolley Technology - Levels of Automation

## Manual Conveyor Systems

Manual systems are usually used to bridge short distances between operations requiring frequent back and forth movements. Special features of these systems are:

- ▶ Galvanized steel tube frames (3/4" or 5/4")
- ▶ Modular design for customized solutions (e.g. trolley stops, manually operated switches, fire protection doors or parking switches)
- ▶ Switch position can be changed by hand easily
- ▶ Three basic types of trolleys with or without hangers (nominal lengths 646 mm, 846 mm and 1,046 mm)
- ▶ Load capacity of a trolley range from 50 kg (standard) to 105 kg
- ▶ Trolleys can be connected together to form a train
- ▶ Transfer of empty trolleys
- ▶ Telescope conveyors for moving trolleys to and from the loading and unloading ramps
- ▶ Easy and fast installation
- ▶ Low maintenance

## Semi-automatic Conveyor Systems

The semi-automatic system is the most frequently used type of conveyor system. Based on the components of the manual system, it is an ideal intermediate stage towards a fully automated distribution system. Completed by automatically controlled electro-pneumatic components, semi-automatic systems are used for long distance transport from one building level or warehouse area to another. The intelligent control unit Translog® always finds the trolley's best route to its destination. Special features of these systems are:

- ▶ Chain conveyors with a speed of up to 21 m/min
- ▶ Electro-pneumatic modules such as switches, stops, vertical sorters, pushers and brakes
- ▶ Integrated identification systems (bar codes, transponders or indexes)
- ▶ Single item conveyors (transfer conveyors, brush conveyors)

## Fully Automated Conveyor Systems

These systems are operated without any manual intervention. Manual work such as repacking is only required at the work stations. The modular system builds upon the semi-automatic components and is used wherever direct access to goods is not required or possible. HSP's Translog® software controls the highly dynamic warehouse processes and provides the interface with the host computer. The trolleys are identified using bar codes or transponders. At so called I-points, which are equipped with scanners and PCs, customer specific data can be displayed or entered into the system. The entire conveyor system can be visualized. Fully automatic systems of MEIKO have the following advantages:

- ▶ Low maintenance despite high level of automation
- ▶ Easy to use and logical elements require little training
- ▶ User-friendly software

# Complementary Products for Trolley Technology

## Automatic Hanging Goods Sorter

Hanging goods sorters are used to sort garments on hangers by “customer”, “branch”, “date”, “model”, “size” and “color”. The goods are fed into the sorter manually and/or automatically via the distribution station. When the articles are moved into the sorter, the data is scanned. According to the picking instructions the articles are then assigned to the drop off lines by the main computer. Articles can be identified by:

- ▶ reading the labels
- ▶ manually registering the lead item of the article group
- ▶ using separator coat hangers

## Functional description

The conveyor transports the goods to the drop off lines according to type. The assignment of the hanging garments to the drop off lines is automatically calculated by a control computer. The goods are identified by groups, i.e. lines. The drop off line is inclined and has a low friction surface. A stop in the middle of the drop off line minimizes the accumulation pressure and separates customer orders or defined packing units automatically. The goods are retrieved from the sorter manually and/or automatically on the subsequent conveyors.



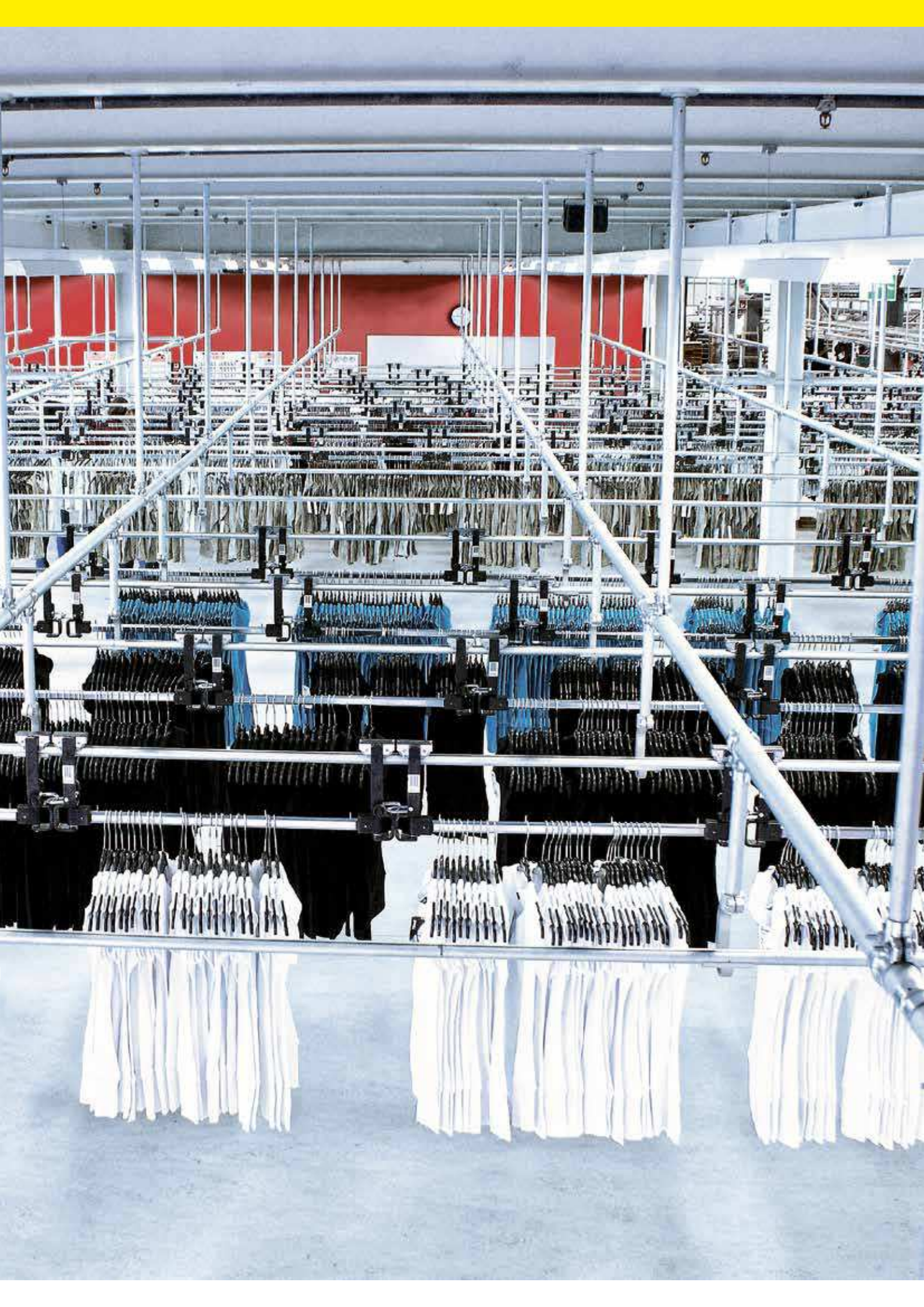
▲ Brush conveyor



▼ Buffer zone for incoming goods

▲ Crossover





### Key Facts

- ▶ Easy and low cost installation
- ▶ Standardized guides and mounting parts
- ▶ Standard tubes are used as guides and mounting profiles
- ▶ Proven and reliable technology
- ▶ Highly flexible system design
- ▶ Fully adjustable to customer requirements
- ▶ Possibility of step-by-step automation
- ▶ Easy to maintain
- ▶ Quick and simple spare parts management
- ▶ Low investment costs
- ▶ Modular design for easy scalability
- ▶ Optimization of material flow

### Components

- ▶ Guide rails of overhead hanging goods conveyor and support frames are made of galvanized steel tubes (3/4", 5/4 or 1 1/2")
- ▶ Manually operated electro-pneumatic, fire protection doors and parking switches
- ▶ Three basic trolley types
- ▶ Telescope conveyors
- ▶ Carousel, inclined and vertical conveyors
- ▶ Storage system

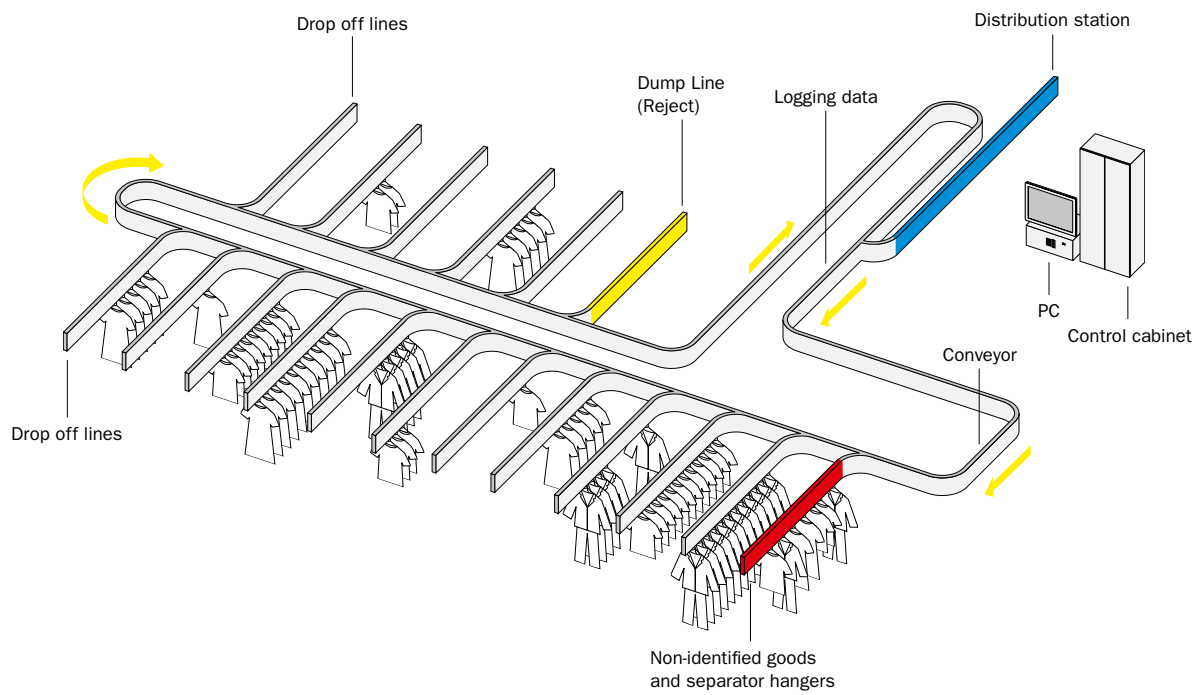
### Translog Control

Translog® is the world's most effective and innovative software and control technology for all types of hanging goods conveyors, ranging from trolley solutions and separate hangers to adapter systems in bag sorters. Translog® integrates smoothly with the warehouse management system WAMAS®.

▼ Manual shipping buffer



# Hanging Goods Sorter



▼ Declining sorter drop-off bar





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